

outwardly from an outer periphery of said motor case, the vertical walls having an aperture portion directed in an outward radial direction defined by the vertical walls; a motor-side through hole, directed in the outward radial direction and which communicates inside and outside of said motor case is formed in a case periphery wall of said motor case and is enclosed by said vertical walls; a plurality of motor-side connection terminals mounted on respective ones of a plurality of motor-side coil wires drawn out from said motor stator, the motor-side connection terminals being embedded and retained within said motor-side through hole and directed in the outward radial direction and arrayed in the circumferential direction by molding, the molding sealing said motor-side through hole; respective cable-side connection terminals attached to a plurality of power supply cables, and respective connectors attached for fastening to said terminal box; a plurality of connector mating holes, and a plurality of connector fastening screw holes paired with the plurality of connector mating holes, are formed in a vertical wall of said terminal box parallel to the arrayed direction of said motor-side connection terminals, directed in directions substantially perpendicular to the axial directions of said respective motor-side connection terminals, and arrayed in the circumferential direction; and, said plurality of connector mating holes and connector fastening screw holes are arranged such that angles made by planes containing each of the axes of the connector fastening screw holes and paired connector mating holes formed in said vertical wall, with each of motor-side connection surfaces formed at tips of motor-side connecting portions of said motor-side connection terminals respectively connected to said plurality of cable-side connection terminals, are each different.

Please cancel Claim 8 and rewrite as independent Claim 10 as follows:

10. (New) A wiring connection device, wherein a substantially cylindrical-shape motor case is mounted on a cylinder block of an engine; a motor stator of an electric motor having an electricity generation function is mounted in the motor case; on the crankshaft of the engine is mounted a rotor mounting member; the motor rotor of the electric motor is mounted on the rotor mounting member; a terminal box, having vertical walls stands integrally and extends from an outer periphery of said motor case, the vertical walls having an aperture portion directed in an outward radial direction defined by the vertical walls; a motor-side through hole, directed in the outward radial direction and which communicates inside and outside of said motor case is formed in a case periphery wall of said motor case and enclosed by said vertical walls; a plurality of motor-side connection terminals mounted on respective ones of a plurality of motor-side coil wires drawn out from said motor stator, the motor-side connection terminals being embedded and retained within said motor-side through hole and directed in the outward radial direction and arrayed in the circumferential direction by molding, the molding sealing said motor-side through hole; a plurality of cable-side connection terminals are directed through a plurality of connector mating holes in a vertical wall of said terminal box to within said terminal box, in directions substantially perpendicular to the axial directions of said respective motor-side connection terminals, and arrayed in the circumferential direction; respective connectors of said cable-side connection terminals are mated with said plurality of connector mating holes and respective fastening bolts are screwed into a plurality of connector fastening screw holes, fastening each said connector to said vertical wall; cable-side connecting surfaces of cable-side

connecting portions of said cable-side connection terminals are brought into contact with motor-side connecting surfaces of motor-side connecting portions of said motor-side connection terminals; connection bolts passed through connection through holes of said cable-side connecting portions are screwed into connection screw holes of said motor-side connecting portions, so that said cable-side connection terminals are connected to said motor-side connection terminals; and, a lid member which blocks the aperture portion about an outer edge of said vertical walls of said terminal box is mounted in watertight fashion.

Please amend Claims 1-6 to read as follows:

1. (Amended) A wiring connection device, wherein a substantially cylindrical-shape motor case is mounted on a cylinder block of an engine; a motor stator of an electric motor having an electricity generation function is mounted in the motor case; on a crankshaft of the engine is mounted a rotor mounting member; a motor rotor of the electric motor is mounted on the rotor mounting member; a terminal box having vertical walls directed in an outward radial direction is monolithic with said motor case, said vertical walls defining an aperture portion extending from an outer periphery of said motor case; a motor-side through hole, directed in the outward radial direction and which communicates inside and outside of said motor case is formed in a motor case periphery wall and enclosed by said vertical walls; a motor-side connection terminal is mounted on a motor-side coil wire drawn out from said motor stator, the motor-side connection terminal is embedded and retained by molding within said motor-side through hole; and said motor-side through hole is sealed by the molding.

2. (Amended) The wiring connection device according to claim 1, wherein inner surfaces of said vertical walls of said terminal box are covered with molding and a portion of the terminal box is free from molding.

3. (Amended) The wiring connection device according to claim 1, wherein the motor-side connection terminal comprises one of a plurality of motor-side connection terminals and the motor-side coil wire comprises one of a plurality of motor-side coil wires, said motor-side connection terminals being attached to respective ones of said plurality of motor-side coil wires drawn out from said motor stator; said plurality of motor-side connection terminals being embedded and retained in the motor-side through hole and in the terminal box by the molding; respective cable-side connection terminals are attached to a plurality of power supply cables, each electrically connected to a respective one of said plurality of motor-side coil wires; and, insulating portions are formed between said plurality of motor-side connection terminals and between said plurality of cable-side connection terminals respectively connected to ones of said plurality of motor-side connection terminals.

4. (Amended) The wiring connection device according to claim 1, wherein said motor-side connection terminal comprises: a base-side coil wire retaining portion and a tip-side motor-side connecting portion; a motor wire insertion hole, into which the motor-side coil wire is inserted and crimped, and is formed in said coil wire retaining portion, directed in an axial direction; a connection screw hole in which is screwed a connection bolt of said motor-side connecting portion; and, a knurl-stop portion, embedded in the molding, is formed in said motor-side connecting portion.

5. (Amended) The wiring connection device according to claim 4, wherein a plating liquid hole is formed in one side of the coil wire retaining portion of said motor-side connection terminal, enabling inflow of plating liquid into the coil retaining portion; and, after plating, the motor-side coil wire is inserted into the coil wire insertion hole, said coil wire retaining portion is crimped from the side in the radial direction opposing the plating liquid hole, so that the motor-side coil wire is attached in the coil wire retaining portion.

6. (Amended) The wiring connection device according to claim 1, including a cable-side connection terminal comprising a base-side cable retaining portion and a cable-side connecting portion; a cable wire insertion hole, in which a core of a power supply cable is inserted and crimped, is formed in said cable retaining portion; and, a connection through hole which receives a connection bolt, is formed in said cable-side connecting portion.

Please add Claims 11-21 as follows:

11. (New) The wiring connection device according to Claim 4, wherein said knurl-stop portion includes two flat parallel surfaces.

12. (New) The wiring connection device according to Claim 4, wherein said knurl-stop portion has a hexagonal shape.

13. (New) The wiring connection device according to Claim 1, wherein said motor-side connection terminal comprises a coil wire retaining portion and a motor-side connection portion, said motor-side connecting portion including two knurl-stop portions having parallel lines.

14. (New) The wiring connection device according to Claim 1, including connector mating holes in one of said vertical walls, wherein each said mating hole has a different shape.

15. (New) The wiring connection device according to Claim 1, wherein said motor-side connection terminal comprises one of a plurality of motor-side connection terminals, said motor side connection terminals including cylindrical-shaped motor-side connection portions having a first inner diameter, said wiring connection device including a single terminal retainer having insulating properties and a joining hole and ring-shaped insulating portions with an inner diameter equal to the first inner diameter, said terminal retainer retaining said cylindrical-shaped motor-side connection portions aligned therein between the ring-shaped insulating portions so that the joining hole includes motor-side connection portions spaced along the length thereof.

16. (New) A combination in a hybrid vehicle of:  
an engine having a cylinder block and a crankshaft;  
a rotor mounting member mounted to the crankshaft;  
an electric motor including a rotor mounted to the rotor mounting member and a stator, the stator including plural motor-side coil wires;

a motor casing secured to the cylinder block and containing the electric motor and a motor-side through hole;

a terminal box comprising walls projecting outwardly from a portion of an outer periphery surface of said motor casing, the motor-side through hole opening from an interior of said motor casing into said terminal box, said walls forming an aperture portion extending outwardly from the motor-side through hole, said terminal box having a lower end adjacent

the motor-side through hole and an upper end at opposing outward edges of the walls;

motor-side connection terminals receiving respective ones of the motor-side coil wires;

molding material receiving said motor-side connection terminals and extending about part of the aperture portion and contacting inner surfaces of the walls of said terminal box, said motor-side connection terminals being embedded in said molding material and said molding material sealing the aperture portion of said terminal box from the motor casing interior, and

a lid covering the upper end of said terminal box.

17. (New) The combination of Claim 16, wherein said terminal box includes a plurality of connector mating apertures in one of the walls thereof,

a plurality of power supply cables ending at cable side connection terminals and having connector side mating portions, each said connector side mating portion mating with one of said mating apertures in the wall of said terminal box, and

wherein said cable side connection terminals are secured to respective ones of said motor-side connection terminals inside said terminal box.

18. (New) The combination of Claim 17, wherein said motor side connection terminals include closed bore connection holes and said cable side connection terminals include cable side connecting portions with open connection apertures, said open connection apertures being in alignment with said connection holes so that respective connection members extend through respective ones of said open connection apertures and are secured in respective ones of said closed bore connection holes to provide surface to surface contact between said

motor-side connection terminals and respective ones of said cable side connection terminals.

19. (New) The combination of Claim 16, wherein said terminal box is monolithic with said motor casing.

20. (New) The combination of Claim 16, wherein said motor side connection terminals include cylindrical-shaped motor-side connection portions each having a first inner diameter,

a motor-side terminal retainer having insulating properties and a joining hole and ring-shaped insulating portions with an inner diameter substantially equal to the first inner diameter, said terminal retainer retaining said plurality of motor-side connection terminals therein positioned between the ring-shaped insulating portions and aligned so that the joining hole includes motor-side connection portions spaced along the length thereof, the molding material retaining said terminal retainer in said terminal box.

21. (New) The combination of Claim 20, including a plurality of cable side connection terminals having cable-side connection portions and electrically connected with a plurality of power supply cables, said cable-side connection portions having a U-shaped cross-section with an outer diameter slightly larger than the inner diameter of said cylindrical-shaped motor-side connection portions, and

a cable side retainer receiving cores of said cable-side connection portions, and insulating portions of said cable side retainer spaced between said cable-side connection portions so that said cable side retainer is capable of being inserted in said motor-side terminal retainer in said terminal box with respective ones of said cable-side connection